

## PATENT ABSTRACTS OF JAPAN

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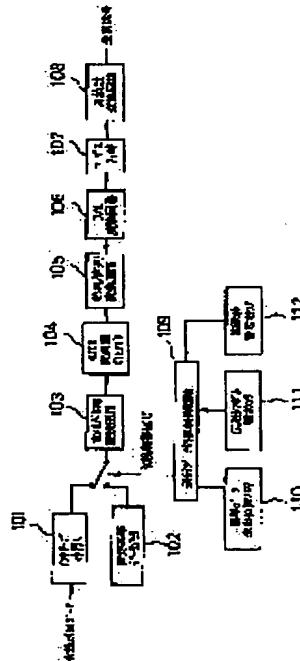
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**(54) ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED DIGITAL SIGNAL  
 TRANSMISSION SYSTEM AND TRANSMITTING DEVICE AND RECEIVING DEVICE USED  
 FOR THE SAME**

**(57)Abstract:**

**PURPOSE:** To receive data on a reception side without regenerating carriers by periodically sending out amplitude and phase reference data of the respective carriers at a determined position in a frame consisting of plural transmitted symbols.

**CONSTITUTION:** The effective transmitted data are interleaved by an interleaving matrix 101 and inputted to a serial/parallel converting circuit 103 while switched with the amplitude and phase reference data stored in a fixed reference data memory 102 under the control of a switching control signal. The serial-parallel converting circuit 103 converts the data consisting of bits, sent with one transmitted symbol, into parallel data, which are inputted to an orthogonal frequency division multiplexed digital signal(OFDM) modulator 104. The OFDM modulator 104 generates the time base waveform of the base band by inverse discrete Fourier transformation and inputs it to a parallel-serial converting circuit 105, and the data are converted into serial data, which is further converted into an OFDM signal of radio frequency through a D/A converting circuit 106, a low-pass filter, and a frequency converting circuit 108.



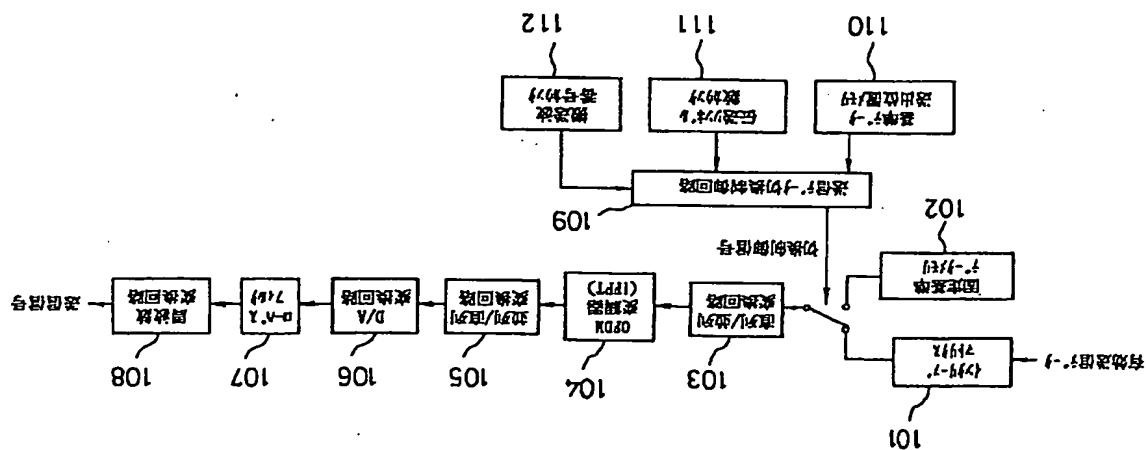
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[图2]

